2nd International Workshop towards the Giant Liquid Argon Charge Imaging Experiment (GLA2011)

from Sunday 05 June 2011 at 18:00 to Friday 10 June 2011 at 10:00 (Europe/Helsinki) at Department of Physics, University of Jyväskylä, Finland (JYFL)

Description The aim of the workshop is to bring together researchers interested in realizing a giant neutrino observatory based on the liquid Argon time projection chamber technology, combining next-generation searches for proton decay and neutrino physics with natural and artificial sources. The workshop will include a visit to Pyhäsalmi - the deepest mine in Europe and one of the sites considered by the LAGUNA design study. With distances of 2300 km from CERN and approximately 7000 km from both KEK/JPARC and FNAL, the Pyhäsalmi site offers a potential optimal location for long baseline neutrino oscillation studies. The workshop aims at fostering a collaboration on medium and long term projects among interested researchers. Reviews of the current efforts taking place worldwide towards building large liquid Argon detectors will be presented.

Go to day Sunday 05 June 2011 19:00 - 21:00 Welcome Reception in the Lobby Alba Hotel Monday 06 June 2011 08:00 - 20:00 Excursion to Pyhäjärvi town and Pyhäsalmi mine underground visit Tuesday 07 June 2011 08:30 - 09:10 Welcome address 08:30 Opening remarks 20' Welcome address from the Vice-Rector of University of Jyväskylä 20' Speaker: Prof. Matti Manninen (University of Jyväskyla) 09:10 - 12:30 Main goals of Giant Liquid Argon Charge Imaging Experiment Overview talk on long baseline oscillation experiments 40' Speaker: Prof. Milind Diwan (BNL) 09:50 Overview talk on astrophysical neutrinos 40' Speaker: Prof. Steen Hannestad (Aarhus University) 10:30 Overview talk on proton decay searches 40' Speaker: Dr. Yoshinari Hayato (ICRR) 11:10 Status of CP violation searches in hadronic sector 40' Speaker: Dr. Augusto Ceccucci (CERN) 11:50 Very Short Baseline Neutrino Oscillation Experiments using Cyclotron Decay-at-Rest Sources 20' Speaker: Dr. Sanjib Agarwalla (IFIC Valencia) 12:30 - 14:00 Lunch 14:00 - 15:30 Next generation long baseline neutrino beams FNAL-DUSEL + Project X 30' Speaker: Dr. Steve Holmes (FNAL) 14:30 Near and far future at J-PARC neutrino beam 30' Speaker: Prof. Takashi Kobayashi (KEK-IPNS) 15:00 Plans for CERN-LAGUNA-LBNO beams and beyond 30' Speaker: Dr. Ilias Efthymiopoulos (CERN) 15:30 - 16:00 Coffee 16:00 - 17:40 Large cryogenic systems and industrial components 16:20 Experience and issues in underground construction 20' Speaker: Dr. Alan Auld (Alan Auld Group LTD) 16:40 Study of large cryogenic tanks for LAr storage 30' Speaker: Dr. Mike Haworth (Technodyne International Ltd) 17:00 Large tanks and cryogenic facilities 20'

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	Speaker: Dr. Jérôme Sialelli (Société Francaise d'Etudes et de Réalisations d'Equipements Gaziers (Sofregaz))
17:40 - 18:30	Status of ongoing or planned Liquid Argon and Xenon based projects (I) 17:40 ICARUS T600 results 30' Speaker: Prof. Jan Kisiel (University of Silesia)
	18:10 Status of ArgonTube 20' Speaker: Dr. Marcello Messina (University of Bern)
Wednesday	08 June 2011
08:30 - 12:35	Status of ongoing or planned Liquid Argon and Xenon based projects (II) 08:30
	08:50 T32 @ J-PARC results 20' Speaker: Prof. Takasumi Maruyama (KEK-IPNS)
	09:10 Status of MicroBOONE 20' Speaker: Dr. Roxanne Guenette (Yale University)
	09:30 Status of the LBNE project 45' Speaker: Prof. Robert Svoboda (UC Davis)
	10:15 Coffee 30'
	10:45 Results from XENON-100 and future plans 30' Speaker: Dr. Antonio Jesus Melgarejo Fernandez (Columbia University)
	11:15 Status of XMASS 20' Speaker: Dr. Atsushi TAKEDA (ICRR, Univ. of Tokyo)
	11:35 Status of WARP 30' Speaker: Dr. Claudio Montanari (INFN Pavia)
	12:05 Status of ArDM 30' Speaker: Dr. Alessandro Curioni (ETH Zurich)
12:45 - 14:30	Lunch
14:30 - 15:30	Status of ongoing or planned Liquid Argon and Xenon based projects (III) 14:30 Design and Performance of the ATLAS LAr calorimeter 30' Speaker: Prof. Jose Del Peso (UAM)
	15:00 The cryogenic systems of the LHC experiments 30' Speaker: Dr. Johan Bremer (CERN)
15:30 - 16:00	Coffee
16:00 - 17:50	Improvements of the Liquid Argon Charge Imaging technology (I) 16:00 Recent results on LAr LEM TPC R&D 20' Speaker: Mr. Filippo Resnati (ETH Zurich)
	16:20 Micromegas for charge readout of double phase Liquid Argon TPCs 20' Speaker: Dr. Marco Zito (CEA Saclay)
	16:40 Development of cold electronics 30' Speaker: Prof. Veljko Radeka (BNL)
	17:10 Development of new solutions for warm electronics 20' Speaker: Prof. Sandro Centro (Padova University and INFN Padova) Material: Slides
	17:30 Lightguide detector for LAr TPC: Optical Simulation and Reconstruction Methods 20' Speaker: Mr. Benjamin Jones (MIT)
19:00 - 23:00	Evening Cruise
Thursday 0	9 June 2011
08:30 - 10:00	Improvements of the Liquid Argon Charge Imaging technology (II) 08:30 Development and experience with very high voltage feed-throughs 20'

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		Charles Prof. Hangua Mana (HCLA)		
	00.50	Speaker: Prof. Hanguo Wang (UCLA)		
	08:50	Status of LAPD 30' Speaker: Dr. Brian Rebel (FNAL)		
	09:20	Status and plans with 6m3 at CERN 20'		
	00.20	Speaker: Dr. Alberto Marchionni (ETH Zurich)		
	09:40	Liquid Argon Purification Studies using a Novel Recirculation System 20' Speaker: Dr. Kostas Mavrokoridis (University of Liverpool)		
10:00 - 10:30	Coffee			
10:30 - 12:00	Underground location studies 10:30 Pyhäsalmi site study 30' Speaker: Lauri Uotinen (Kalliosuunnittelu Oy Rockplan Ltd)			
	11:00	Okinoshima site study 30' Speaker: Prof. Masakazu Yoshioka (KEK-IPNS)		
	11:30	Preliminary design of the undeground facilities for the GLACIER experiment cavern at Canfranc 30' Speaker: Dr. Clemente Sáenz Sanz (ACCIONA Ingeniería)		
12:00 - 13:30	Lunch			
13:30 - 14:30	Visit to	risit to the JYFL Accelerator Laboratory		
14:30 - 15:50	Studie 14:30	es on event reconstruction LArSoft 30' Speaker: Dr. Eric Church (FNAL)		
	15:00	QScan 30' Speaker: Mr. Devis Lussi (ETH Zurich)		
	15:30	Data handling and storage services 20' Speaker: Dr. Pirjo-Leena Forsström (Director, Data Services for Science and Culture, CSC)		
16:00 - 16:30	Coffee			
16:30 - 18:30	Future 16:30	e steps towards the realization of a Giant Liquid Argon Charge Imaging Detector Double-LAr proposal at CERN PS 30' Speaker: Dr. Alberto Guglielmi (Padova University and INFN Padova)		
	17:00	Status of LBNE LAr and LAr1 30' Speaker: Dr. Bruce Baller (FNAL)		
	17:30	An underground kton-scale pilot project 30' Speaker: Prof. Andre Rubbia (ETH Zurich)		
	18:00	Discussion and conclusion 30' Speaker: Prof. Takuya Hasegawa (KEK-IPNS)		
19:00 - 23:00	Confer	rence Dinner		
Friday 10 Ju	une 201	1		
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